

SEQUENCE LISTING

mSlo3 amino acid sequence (SEQ ID NO:1):

MSQTLDSLNLQKELTETSCETIEIQAAFILSSSLATFFGGLIILFLFRIALKSSRSWKYVKGPRGLLELFSSRR
 5 IEANPLRKLYFHGVFRQRIEMLLSAQTVVGQVLVILVFLSIGSLVIYFINSMDPVRRCSSYEDKIVHGDLS
 FNAFFSFYFGLRFWAAEDKIKFWLEMNSIVDIFTIPPTFISYYLKSNNLGLRFLRALRLLELPKILQILQVI
 KTSNSVKLSKLLSIVISTWFTAAGFLHLVENSQDPWLNGRNSQTMYSYFESIYLVATMTSTVGFGDVVAKTSL
 GRIFIVFFTLGSLILFANYIPEMVELFSTRKCYTKPYEAVKGKKFIVVCGNITVDSVTAFLRNFLHWKSGEI
 NIEIVFLGETLPCLELETLLKCHTSCNFCVGTALKFEDLKRVAVERSEACLILANHFCSLDHEDNSNIMR
 10 VLSIKNYYPQTRVIIQILQSQNKVFLSKIPNWDWSAGDNILCFELKLGFIAGCLVPGLCTFLTTLFIEQN
 QKVFPKHPWQKHFLNGLKNKILTQRLSNDFVGMFTFPQVSRCLCFVKLNLMIAIQHKPFFHSCCTLIINPSSQ
 VRLNKDTLGGFIADSSKAVKRAFFYCSNCHSDVENPELIGKCNCKIKSRQQLIAPTIMVMKSSSLTDFTTSSH
 IHASMSTEIHTCFSREQPSLITITTNRPITNDTVDDTMDLSSGMFHWCRAMPLDKVVLKRSEKAKHEFQNH
 IVVCVFGDAQCTLVGLRNFVMPLRASNYTRQELKDIFVIGSLEYFQREWRFLRNFPKIHIMPGSALYMGDLI
 15 AVNVEQCSMCVILATPYKALSSQILVDTEAIMATLNIQSLRITSPTPGSSKSEVKPSSAFDSKERKQRYKQI
 PILTELKNPSNIHFIEQMGGLDGMLKGTSLSLSTSFSTGAVFSDTFLDSLATSFYNYHVVELLQMLVTGGI
 SSEMEHYLVKEKPYKTTDDYEAIKSGRTRCKDGLSLDQTVLSGINPRKTFGQLFCGSLDNFGILCVGLYRM
 IDEEEPSQEHKRFVITRPSNECHLLPSDLVFCATPFNTTCGKSDSSPFNFRKTTLQTRRRHWPRGRIR
 20 TMPTSPTIFTQSTTRERGGGLSTTTPEILWTR

mSlo3 nucleotide sequence (SEQ ID NO:2):

ATGTCCTCAAACATTGCTAGACAGTTTAAATCAGAAGGAGTTGACGGAAACGTCATGTACAATCGAAATCCAG
 GCACGCTTCATTCTTTCTCCTTGGCGACTTTCTTCGGGGGACTCATCATCTTATTCCTTTTCAGAATAGCC
 TTGAAAAGCTCAAGAAGTTGGAAATACGTCAAGGGGCCAAGAGGACTCTTGGAATATTCTCATCACGTAGA
 25 ATCGAGGCTAATCCTTTGAGGAACTTTACTTTTCATGGAGTATTTTCGTCAGCGCATCGAAATGCTGCTTTCT
 GCACAGACCGTCGTGGGGCAAGTGTGGTGATCCTTGCTCTTTGTACTAAGCATCGGGTCTCTTGATCTAT
 TTCATCAATTCAATGGATCCTGTTGGAAGCTGTTCTTCATATGAAGACAAAATTGTCCATGGGGATTGAGT
 TTCAACGCTTTCTTTAGCTTCTATTTTGGCTTGAGGTTTTGGGCAGCTGAAGACAAGATCAAGTTCTGGTTG
 GAGATGAATTCAATTGTAGACATTTTTTACCATCCCGCCAACCTTTATTTCTTATTATTTGAAGAGTAATTGG
 30 CTAGGTTTGAGATTTCTAAGAGCTCTGCGCTTGCTCGAACTCCCTAAAATCTTACAGATCCTACAAGTCATC
 AAGACCAGCAATTCAAGTGAAGCTTTCCAACTGTTGTCAATAGTTATCAGTACCTGGTTCACGGCAGCAGGA
 TTCCTTCACCTGGTGGAAAATTCTGGTGACCCCTGGCTCAACGGAAGAACTCACAGACTATGTCATACTTT
 GAGTCTATTTATCTGGTGACAGCAACAATGTCAACTGTTGGCTTTGGGGACGTGGTGGCCAAGACATCCCTA
 GGACGGATTTTCATTGTTTTCTTCACCTTGGGAGTTTGATACTATTTGCAAACCTACATTCCAGAAATGGTG
 35 GAGCTCTTTTCTACCAGGAAGAAAATACACCAAGCCCTACGAAGCAGTCAAAGGAAAAAAGTTCATCGTGGTC
 TGTGGAAACATCACAGTTGACAGTGTTACTGCTTTCTGAGGAATTTCTCCACTGGAAGTCCGGGGAAATC
 AATATTGAGATCGTATTCCTTGAGAGACTCTCCCTTGCTTGGAACTGGAGACCTTACTGAAGTGCCACACA
 TCCTGTACCAACTTCGTATGCGGCACCGCACTGAAGTTCGAGGATCTGAAGCGAGTTGCAGTGGAGAACTCG
 GAGGCGTGCTGATTCTAGCCAACCATTTCTGTAGTGACTTACATGACGAAGACAACCTCAAACATTATGAGG
 40 GTGCTCTCGATCAAGAACTATTATCCACAGACCAGAGTCATCATTAGATACTTCAGTCTCAAAACAAGGTT

TTCCTGTCAAAAATCCCCAACTGGGACTGGAGTGCTGGAGACAATATCCTCTGCTTTGCAGAGCTAAAGCTC
 GGATTATCGCCCAAGGCTGCTTGGTGCCAGGGCTGTGCACCTTTCTCACGACTCTGTTTATTGAACAAAAC
 CAAAAGGTTTTTCTTAAACATCCCTGGCAAAAACATTTCTTGAATGGCTTGAAGAACAAGATTCTGACACAG
 CGCCTCTCTAACGACTTCGTGGGGATGACATTTCCCCAGGTCTCCCGGCTCTGCTTTGTGAAGCTAAATCTC
 5 ATGCTGATCGCCATCCAACACAAGCCCTTCTTTTACAGTTGTTGCACTCTGATACTAAACCCATCATCCCAA
 GTGAGGCTGAATAAGGACACCTTAGGGTTCTTTCATTGCGGACTCCTCCAAAGCCGTCAAAGGGCTTTCTTT
 TACTGTTCCAAGTGTACAGCGATGTGTGCAATCCTGAGCTAATTGGAAAAGTGAAGTGTAAATCAAGAGC
 CGACAACAAGTATAGCACCGACCATCATGGTGTATGAAAAGCAGCTTGACCGATTTACCACTTCTTCACAC
 ATCCACGCTTCTATGTCAACAGAAATTCACACTTGTTTTTTCAAGAGAACAGCCTAGTTTGATCACCATTACA
 10 ACCAACAGACCAACGACAAACGACACAGTGGATGATACCGACATGCTGGACAGCAGTGGCATGTTTCACTGG
 TGCAGAGCAATGCCCTTGGACAAGGTGGTTCTGAAACGAAGTGAGAAGGCAAAACACGAGTTTCAGAACCAC
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 GCCAGCAACTACACCCGGCAGGAGCTGAAGGACATTGTTTTTATTGGGTCTCTGGAGTACTTCCAGAGAGAA
 TGGCGATTTCTCCGAACTTTCCCAAGATACACATTATGCCTGGATCTGCACTCTACATGGGAGATCTGATT
 15 GCAGTCAATGTAGAGCAGTGCTCTATGTGCGTCTCTTAGCCACACCCTACAAGGCACTGAGCAGCCAGATT
 CTGGTGGACACAGAGGCCATCATGGCCACCCTCAACATCCAGTCCCTGCGGATCACCAGTCTACTCCAGGG
 TCTTCAAAGTCAGAAGTAAAGCCATCATCTGCGTTTGATAGTAAAGAAAGGAAGCAAAGATACAAACAGATC
 CCCATTCTCACTGAACTGAAGAATCCCTCCAACATCCACTTTATTGAGCAGATGGGCGGACTGGATGGAATG
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 20 TCTCTCCTGGCCACGTCTTCTACAATTACCATGTGCTGGAATTTACTTTCAGATGCTAGTGACTGGAGGCATA
 AGCTCTGAGATGGAACACTATTGTTTAAAGGAGAAGCCCTATAAGACAAGTACGACTATGAGGCAATCAAG
 TCTGGGAGGACGCGGTGTAAGCTGGGACTCCTCTCTTTAGACCAAACCGTTCTATCAGGCATTAATCCAAGA
 AAAACCTTTGGACAGCTGTTCTGTGGCTCATTGGATAATTTCCGGATCCTATGTGTGCGCTTATACCGTATG
 ATTGATGAAGAGGAACCCAGCCAAGAACACAAAAGGTTTGTGATCACCAGGCCATCCAATGAGTGCCACCTG
 25 CTGCCCTCAGATCTCGTGTGTTTGTGCCATCCCTTTCAACACCACCTGTGGCAAATCAGACAGCAGTCCTTTC
 AATTTACGGCTCAAAACAAGTCTACAAACGCGACGACGCCATTGGCCCAGGGGTGCAATTTCTTCGATTTCGC
 ACCATGCCGACGAGTCCACGATCTTTACCCAGTTCGACGACACGGGAGAGAGGTGGTCTCAGCACCACCACT
 CCCGAGTCTATCCTTTGGACACGTTAG

30 **hSlo3 amino acid sequence (SEQ ID NO:3):**

GLAALILSSFVTLFSLISLLIFRLIWRXVKKWLIIKGTGIILELFTSGTIARSHVRSLSLHFQGGFRDHIEML
 LSAQTFVGQVLVLVFLSIGSLIIYFINSADPVGTLFII

35 **hSlo3 nucleotide sequence (SEQ ID NO:4):**

GGCTTGGCAGCGCTCATTCTTTCTCTTTGTGACCTCTTCAGTGGACTCATCAGCCTGTTGATCTTCAGG
 CTGATCTGGAGAYCTGTTAAAAAATGGCAAATCATCAAGGGAACAGGAATTATCTTGGAACTGTTACATCA
 GGTACCATCGCTAGGAGCCATGTAAGAAGCCTCCACTTCCAGGGACAATTTTCGTGATCATATAGAAATGTTG
 CTTTCAGCCCAGACCTTTGTGGGGCAAGTGTGGTGTATCCTTGCTTTGTACTAAGCATTGGGTCTCTTATA
 ATCTATTTTCATCAATTCWGCTGACCCTGTTGGAACGCTGTTTCATCATATGAAGACAAAACCATTCCTATTGA
 40 TTTGGTTTTCAATGCTTTCTTTAGTTTCTATTTTGGGTTGAGGTTTTGGCAAGCC

hSlo3-a amino acid sequence (SEQ ID NO:5)

GLAAFILSSFVTLFSGLLIFRLIWRXVKKWQIIKGTGIIILELFTSGTIARSHVRSLSHFQGGFRDHIEML
LSAQTFVGQVLVILVFVLSIGSLIIYFINSADPVGTLFII

5

hSlo3-b amino acid sequence (SEQ ID NO:6)

GLAALILSSFVTLFTGLISLLIFRLIWRXVKKWQIIKGTGIIILELFTSGTIARSHVRSLSHFQGGFRDHIEML
LSAQTFVGQVLVILVFVLSIGSLIIYFINSADPVGTLFII

10 **hSlo3-c amino acid sequence (SEQ ID NO:7)**

GLAALILSSFVTLFSGLLIFRLIWRXVKKWQIIKGTGIIILELFTSGTIARSHVRSLSHFQGGFRDHIEML
LSAQTFVGQVLVILVFVLSIGSLIIYFINSMDPVGTLFII

hSlo3-1 amino acid sequence (SEQ ID NO:16)

15 MFQTKLRNETWEDLPKMSCTTEIQAAILSSFVTFSSGLIILLIFRLIWRXVKKWQIIKGTGIIILELFTSGT
IARSHVRSLSHFQGGFRDHIEMLLSAQTFVGQVLVILVFVLSIGSLIIYFINSADPVGSCSSYEDKTIPIDLV
FNAFFSFYFGLRFMAADDKIKFWLEMNISINDIFTIPPTFISYYLKS NWLGLRFLRALRLLELPQILQILRAI
KTSNSVKFSKLLSIIILSTWFTAAGFIHLVENS GQDPWLKGRNSQNTSYFESIYLVMA TTSTVGFGDVVAKTSL
GRTFIMFFTLGSLILFANYIPEMVLEFANKRKYTSSYEALKGKKFIVVCGNITVDSVTAFLRNFLRDKSGEI
20 NTEIVFLGETPPSLELETIFKCYLAXTTFISGSAMKWEDLRRVAVESAEACLI IANPLCSDSHAEDISNIMR
VLSIKNYDSTTRII IQILQSHNKVYLPKIPSWNWD TGDNIICFAELKLG FIAQGCLVPGLCTFLTSLFVEQN
KKVMPKQTWKHF LNSMKNKILTQRLSDDFAGMSFPEVARLCFLKMYLL LIAIEYKSLFTDGF CGLILNPPP
QVRIRKNTLGFFIAETPKDVRRALFYCSVCHDDVFIPELITNCGCKSRSRQHITVPSVKRMKKCLKGISSRI
SGQDSPPRVSASTSSISNFTTRTLQHDVEQDSDQLDSSGMFHWCKPTSLDKVTLKRTGKSKYKFRNHIVACV
25 FGDH SAPMGLRNFV MPLRASNYTRKELDIVFIGSLDY LQREWFLRNFPQIYILPGCALYSGDLHAANIE
QCSMCAVLSPPPQPSSNQTLDTEAIMATLTIGSLQIDSSSDPSPSVSEETPGYTNGHNEKSNCRKVPILTE
LKNPSNIHFIEQLGGLEGSLQETNLHLSTAFSTGT VTFSSSFLD SLLATAFYNYHVLELLQMLVTGGVSSQLE
QHLDKDKVYGVAD SCTLSSGRNRCKLGLLSLHETILSDVNPRNTFGQLFCGSLDLFGILCVGLYRIIDEEE
LN PENKRFVITR PANEFKLLPSDLVFC AIPFSTACYKRNEEFSLQKSYEIVNKASQT TEDTFRHKLSSHPLI
30 QLLRHCIHQSI LTSRELTPSLFLSK

hSlo3-1 nucleotide sequence (SEQ ID NO:17)

ATGTTTCAGACTAAGCTACGAAATGAACTTGGGAAGACTTGCCAAAAATGTCCTGCACA ACTGAGATCCAA
GCAGCATTCATTCTCTCTTCTTGTGACCTTCTTCAGTGGACTCATCATCCTGTTGATCTTCAGGCTGATC
35 TGGAGATCTGTTAAAAAATGGCAAATCATCAAGGGAACAGGAATTATCTTGGA ACTGTTACATCAGGTACC
ATCGCTAGGAGCCATGTAAGAAGCCTCCACTTCAGGGACAATTTCGTGATCATATAGAAATGTTGCTTTCA
GCCCAGACCTTTGTGGGGCAAGTGTGGTGATCCTTGTCTTTGTACTAAGCATTGGGTCTCTTATAATCTAT
TTCATCAATTCTGCTGACCCTGTTGGAAGCTGTTTCATCATATGAAGACAAAACCATTCCTATTGATTGGTT
TTCAATGCTTTCTTTAGTTTCTATTTTGGATTGAGGTTTATGGCAGCTGATGACAAGATCAAGTTCTGGCTG

GAGATGAATTCAATCGTAGACATCTTTACCATCCACCAACCTTTATTCTTATTATTGGAAGAGCAATTGG
CTAGGTTTAAAGGTTCTTAAGAGCCTTGCGCCTGCTAGAACTCCCTCAAATCTTGCAAATCTACGAGCCATC
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TTCATTACCTGGTGGAAAAATTCTGGTGATCCCTGGCTCAAAGGTAGAAATTCACAGAATATATCATATTTT
GAGTCAATTTACCTGGTTCATGGCAACAACGTCAACCGTTGGATTGGGAGATGTGGTAGCCAAGACATCCTTA
GGACGGACCTTCATCATGTTCTTCACACTGGGGAGTTTGATATTATTTGCGAACTATATACCTGAAATGGTG
GAACTGTTTGCTAACAAGAGGAAATACACCAGTTCMTATGAAGCACTCAAAGGAAAGAAGTTTATTGTGGTC
TGTGGAAACATCACTGTGGACAGTGTGACCGCTTTCCTGAGGAATTTCTCCTCCGCGACAAGTCAGGAGAGATC
AACACTGAAATTGTTTTCTGGGAGAAACCCCTCCTTCTTTGGAACCTGAAACCATATTTAAATGCTACTTG
GCCTACACAACGTTCAATTTCTGGATCTGCAATGAAGTGGGAGGATCTGAGGCGAGTTGCGGTGGAATCTGCA
GAGGCATGCCTGATTATAGCCAATCCTTTGTGCAGTGATTCCCATGCTGAAGATATTTCCAACATTATGAGG
GTGCTCTCTATCAAGAACTATGATTCTACCACGAGAATCATCATACAGATACTGCAATCCCATAACAAGGTT
TATCTGCCAAAGATTCCCAGCTGGAAC TGGGACACCGGAGACAACATCATCTGCTTTGCTGAATTA AAACTT
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AGCCGGCAGCACATCACAGTGCCATCGGTAAAGAGAATGAAAAAATGTCTGAAGGGAATCTCCTCTCGTATA
TCAGGGCAGGATTCTCCGCCAAGGGTATCTGCAAGCACTTCGAGCATATCAAACCTTCACCACCAGGACTCTT
CAACATGATGTAGAACAAGATTCTGACCAGCTTGATAGCAGTGGGATGTTTCACTGGTGCAAAACCACTCT
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AGGAAGGAGCTGAAGGACATAGTGTTTATTGGGTCTCTGGACTATCTACAGAGAGAATGGCGATTCTCCGG
AATTTTCCCAGATATACATTCTGCCTGGATGTGCACTTATTCTGGAGACCTCCATGCGGCCAACATAGAG
CAATGCTCCATGTGTGCTGTCTTGTCCCCC CACCCAGCCATCAAGCAACCAGACTTTGGTAGACACAGAA
GCCATCATGGCAACCCTCACCATCGGATCCTTGCAAATTGACTCCTCCTCTGACCCGTCACCCTCAGTGTC
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CTGAAAAATCCTTCCAACATTCACCTTATTGAACAGCTTGGTGGACTGGAAGGGTCCCTCCAAGAAACAAAT
CTGCATCTCAGCACTGCCTTTTCTACGGGCACTGTTTTTTCCAGCAGCTTCTTGGAATCTCTGCTGGCCACG
GCCTTCTACAATTATCATGTCTGGAATTGCTTCAGATGCTGGTGACAGGAGGAGTAAGTTCTCAGCTGGAA
CAACATTTAGATAAGGATAAAGTCTATGGTGTGGCAGATAGCTGCACGTCGCTCTTGTCTGGAAGAAACCGG
TGTAAGCTGGGGCTTCTGTCTTACACGAAACCATTTTATCAGACGTTAATCCAAGAAACACCTTTGGACAA
CTGTTCTGTGGCTCATTAGATCTTTTGGAAATCTGTGTGTTGGCTTATACCGAATAATTGATGAAGAGGAG
CTCAACCCAGAAAACAAAAGGTTTGTGATCACCCGGCCAGCCAATGAGTTCAAGCTGCTGCCTTCAGATCTT
GTGTTTTGTGCCATACCTTCAGCACTGCTTGTATATAAAGGAATGAAGAGTTCTCATTGCAAAAGTCATAT
GAAATTGTAAATAAAGCATCACAGACAACAGAGGACACATTCAGACACAAATTGTCTCTCCACCCATTGATT
CAGTTACTGAGACATTGTATTCACCAGTCTATTCTTACCAGCCGAGAACTAACTCCCTCTCTTTTCTTAAGC
AAATAGG

hSlo3-2 amino acid sequence (SEQ ID NO:18)

MFQTKLRNETWEDLPKMSCTTEIQAAFILSSFTFFSGLIILLIFRLIWRSVKXWQIIKGTGIIILELFTSGT
IARSHVRSLSHFQGFQFRDHIEMLLSAQTFVGVVLVILVFLVLSIGSLIIYFINSADPVGSCSSYEDKTIPIIDL
FNAFFSFYFGLRFMAADDKIKFWLEMNSIVDIFTIPPTFISYYLKSNNWLGLRFLRALRLLELPQILQILRAI
5 KTSNSVKFSKLLSIIILSTWFTAAGFIHLVENSQDPWLKGRNSQNI SYFESIYLMATTSTVGFGDVVAKTSL
GRTFIMFFTLGSLILFANYIPEMVELFANKRKYTSSYEALKGKKFIVVCGNITVDSVTAFLRNFLRDKSGEI
NTEIVFLGETPPSLELETIFKCYLAYTTFISGSAMKWEDLRRVAVESAEACLI IANPLCSDSHAEDISNIMR
VLSIKNYDSTTRII IQILQSHNKVYLPKIPSWNWDTDGNIICFAELKLGFI AQGCLVPGLCTFLTSLFVEQN
10 KKVMPKQTWKKHFLNSMKNKILTQRLSDDFAGMSFPEVARGLILNPPPQVRIRKNTLGFFIAETPKDVRRAL
FYCSVCHDDVFIPELITNCGCKSRSRQHITVPSVKRMKKCLKGISSRISGQDSPRVSASTSSISNFTTRTL
QHDVEQDSDQLDSSGMFHWCKPTSLDKVTLLKRTGSKYKFRNHIVACVFGDAHSAPMGLRNFVMPPLRASNYT
RKELKDIVFIGSLDYLOREWRFLRNFPQIYILPGCALYSGDLHAANIEQCSMCAVLSPPPQBPSSNQTLVDTE
AIMATLTIGSLQIDSSSDPSPSVSEETPGYTNHNEKSNCRKVPILTELKNPSNIHFIEQLGGLEGSLQETN
LHLSTAFSTGTVFSSSFLLSLATAFYNYHVLLELLQMLVTGGVSSQLEQHLDDKVKYGVADSCSTLLSGRNR
15 CKLGLLSLHETILSDVNPRNTFGQLFCGSLDLFGILCVGLYRIIDEEELNPNENKRFVITRPA NEFKLLPSDL
VFCAIPFSTACYKRNEEFSLQKSYEIVNKASOTTEDTFRHKLSSHPLIQLLRHCIHQSI LTSRELTPSLFLS
K

hSlo-3-2 nucleotide sequence (SEQ ID NO:19)

20 ATGTTTCAGACTAAGCTACGAAATGAACTTGGGAAGACTTGCCAAAATGTCCTGCACAACTGAGATCCAA
GCAGCATTCACTCTCTCTCTCTTGTGACCTTCTTCAGTGACTCATCATCTGTTGATCTTCAGGCTGATC
TGGAGATCTGTTAAAAAATGGCAAATCATCAAGGGAACAGGAATTATCTTGGAAGTGTTCACATCAGGTACC
ATCGCTAGGAGCCATGTAAGAAGCCTCCACTTCCAGGGACAATTTCTGATCATATAGAAATGTTGCTTTCA
GCCCAGACCTTTGTGGGGCAAGTGTGGTGATCCTTGTCTTTGTACTAAGCATTGGGTCTCTTATAATCTAT
25 TTCATCAATTCTGCTGACCCTGTTGGAAGCTGTTTCATCATATGAAGACAAAACCATTCTTATTGATTGGTT
TTCAATGCTTTCTTTAGTTTCTATTTTGGATTGAGGTTTATGGCAGCTGATGACAAGATCAAGTCTGGCTG
GAGATGAATTCAATCGTAGACATCTTTACCATCCCACCAACCTTTATTTCTTATTATTGAAGAGCAATTGG
CTAGGTTTAAGGTTCTTAAGAGCCTTGCGCCTGCTAGAACTCCCTCAAATCTTGCAAATCTACGAGCCATC
AAGACCAGTAACTCAGTGAAGTTTCCAAAGTGCTGTCAATAATTCTCAGTACCTGGTTCACAGCTGCGGGA
30 TTCATTACCTGGTGGAATAATTCTGGTGATCCCTGGCTCAAAGGTAGAAATTCACAGAATATATCATATTTT
GAGTCAATTTACCTGGTCATGGCAACAACGTCAACCGTTGGATTGGAGATGTGGTAGCCAAGACATCCTTA
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TGTGGAAACATCACTGTGGACAGTGTGACCGCTTCTCTGAGGAATTTCTCCGCGACAAGTCAGGAGAGATC
35 AACACTGAAATTGTTTTCTGGGAGAAACCCCTCCTTCTTTGGAAGTGTGAAACCATATTTAAATGCTACTTG
GCCTACACAACGTTTCTTTCTGGATCTGCAATGAAGTGGGAGGATCTGAGGCGAGTTGCGGTGGAATCTGCA
GAGGCATGCCTGATTATAGCCAATCCTTTGTGCAGTGATTCCCATGCTGAAGATATTTCCAACATTATGAGG
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TATCTGCCAAAGATTCCCAGCTGGAAGTGGGAGACCGGAGACAACATCATCTGCTTTGCTGAATTAACACTT
40 GGATTTATCGCCCAAGGCTGTTTGGTGCCAGGCTTGTGTACCTTCTAACATCTCTATTTGTGGAGCAAAAC

AAAAAGGTTATGCCTAAACAGACCTGGAAGAAACACTTCTTGAATAGCATGAAAAACAAAATTCTGACCCAA
 CGTCTCTCTGATGACTTTGCTGGAATGAGCTTTCTGAAAGTTGCCCGTGGTCTGATACTAAATCCACCTCCA
 CAAGTGAGGATACGTAAGAACACATTAGGGTTCTTTATTGCTGAAACTCCAAAGGACGTCAGAAGAGCCTTG
 TTTTACTGTTCACTCTGTCTGATGATGTGTTTCACTTCTGAGCTAATTACAAACTGTGGCTGCAAAAGCAGA
 5 AGCCGGCAGCACATCACAGTGCCATCGGTAAAGAGAAATGAAAAAATGTCTGAAGGGAATCTCCTCTCGTATA
 TCAGGGCAGGATTCTCCGCCAAGGTATCTGCAAGCACTTCGAGCATATCAAACCTTCACCACCAGGACTCTT
 CAACATGATGTAGAACAAGATTCTGACCAGCTTGATAGCAGTGGGATGTTTCACTGGTGCAAACCAACCTCT
 TTGGACAAGGTGACTCTGAAACGAACTGGCAAGTCAAAGTATAAGTTTCGGAACCATATTGTAGCATGTGTA
 TTTGGAGATGCCCACTCAGCCCCGATGGGGCTTCGGAACCTTGTAATGCCCTTGAGAGCCAGCAACTATACC
 10 AGGAAGGAGCTGAAGGACATAGTGTTTATTGGGTCTCTGGACTATCTACAGAGAGAATGGCGATTTCTCCGG
 AATTTTCCCCAGATATACATTCTGCCTGGATGTGCACTTTATTCTGGAGACCTCCATGCGGCCAACATAGAG
 CAATGCTCCATGTGTGCTGTCTTGTCCCCCCCCACCCAGCCATCAAGCAACCAGACTTTGGTAGACACAGAA
 GCCATCATGGCAACCCTCACCATCGGATCCTTGCAAAATTGACTCCTCCTCTGACCCGTACCCTCAGTGTC
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 15 CTGAAAAATCCTTCCAACATTCACTTTATTGAAAGCTTGGTGGACTGGAAGGGTCCCTCCAAGAAACAAAT
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 20 CTGTTCTGTGGCTCATTAGATCTTTTGGAACTCTGTGTGTTGGCTTATACCGAATAATTGATGAAGAGGAG
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 GAAATTGTAAATAAAGCATCACAGACAACAGAGGACACATTTCAGACACAAATTGCTCTCCACCCATTGATT
 CAGTTACTGAGACATTGTATTCACCAGTCTATTCTTACCAGCCGAGAACTAACTCCCTCTCTTTTCTAAGC
 25 AAATAGT